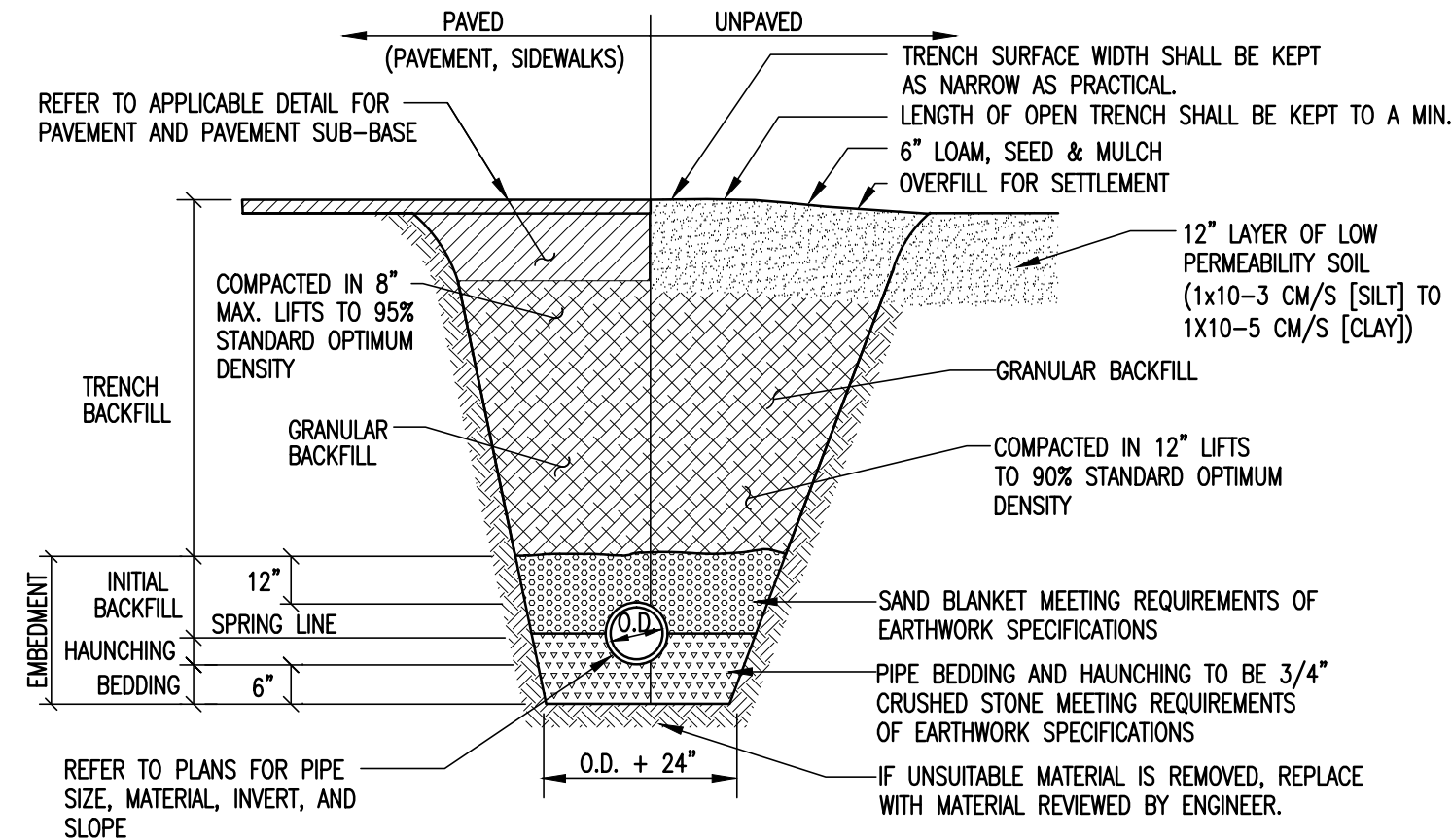
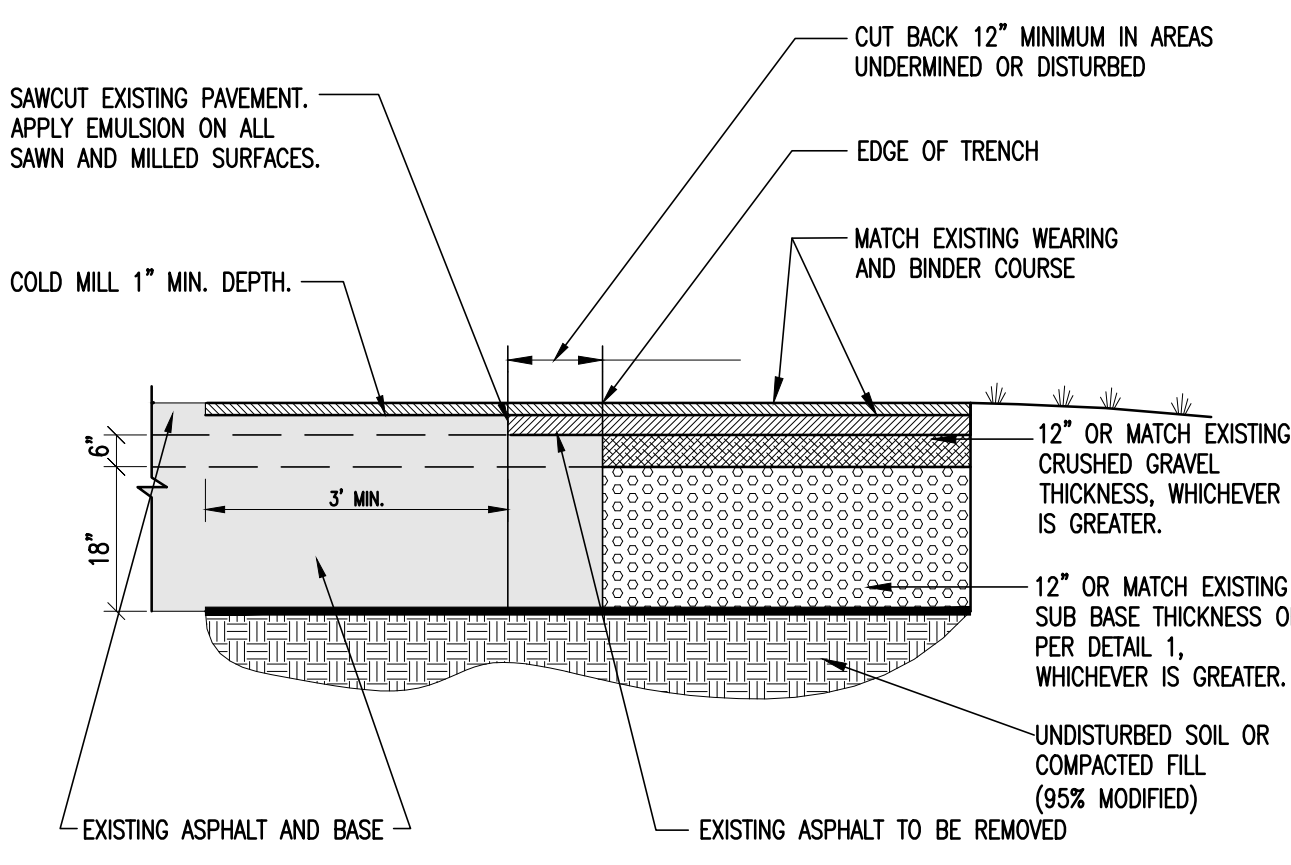


three inches = one foot
one and one half inches = one foot
one inch = one foot
one quarter inch = one foot
three quarters inch = one foot
one half inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



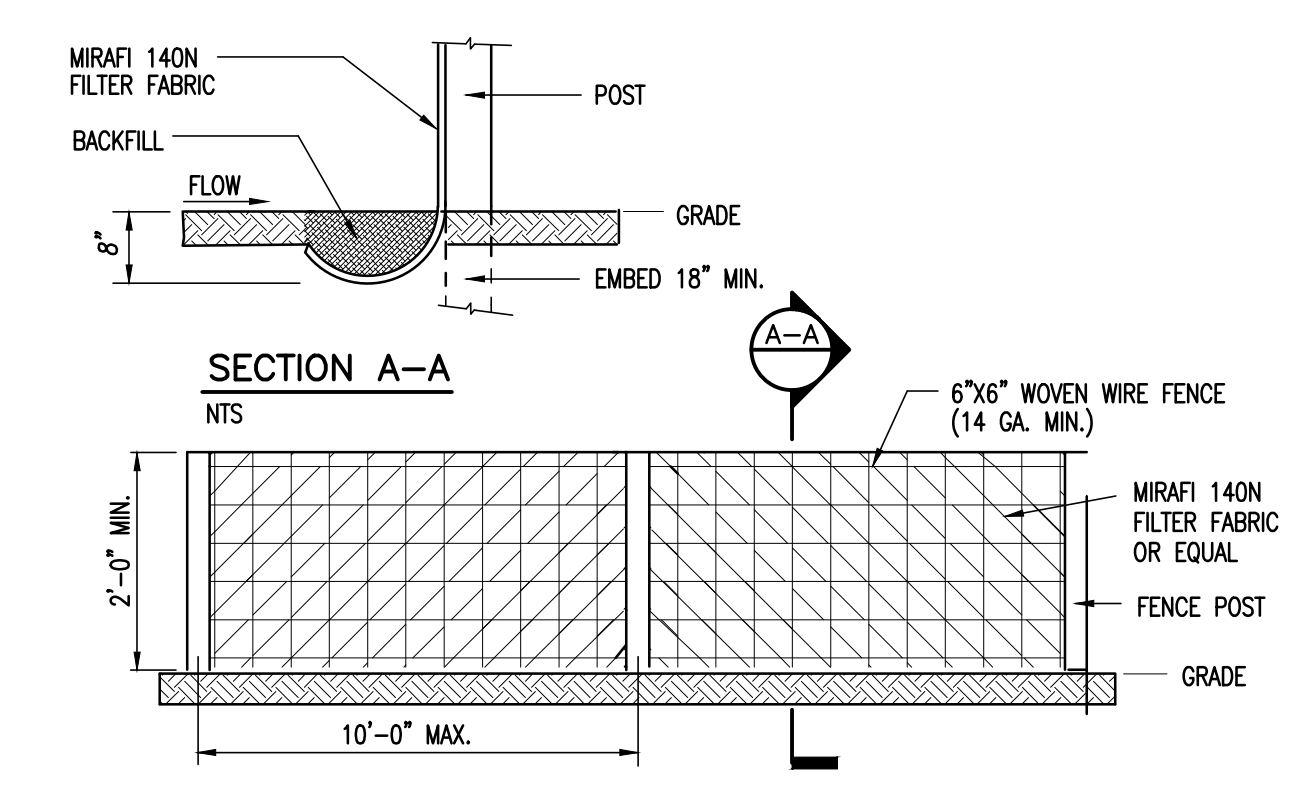
STORM SEWER TRENCH NOTES:
1. UNLESS OTHERWISE NOTED, ASSUME CLASS "C" SOILS. PERFORM ALL EXCAVATIONS TO OSHA REQUIREMENTS.
2. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR THE FULL LENGTH OF PIPE.
3. WHEN APPLICABLE INSTALL PIPE WITH BELL ENDS DOWN SLOPE. PREVENT SEDIMENT FROM ENTERING NEW STORM DRAIN SYSTEM DURING CONSTRUCTION.
4. NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER PIPE TO INSURE PIPE IS NOT DAMAGED.
5. PROVIDE 6" OF COVER OVER PIPE IN PAVED AREAS AND 5" OF COVER OVER PIPE IN UNPAVED AREAS. REFER TO INSULATION DETAIL FOR AREAS WHERE PROPER COVER CAN NOT BE ACHIEVED.
6. USE 3/4" CRUSHED STONE AROUND DRAINAGE SYSTEMS.

STORM SEWER / CULVERT TRENCH DETAIL
SCALE: NONE



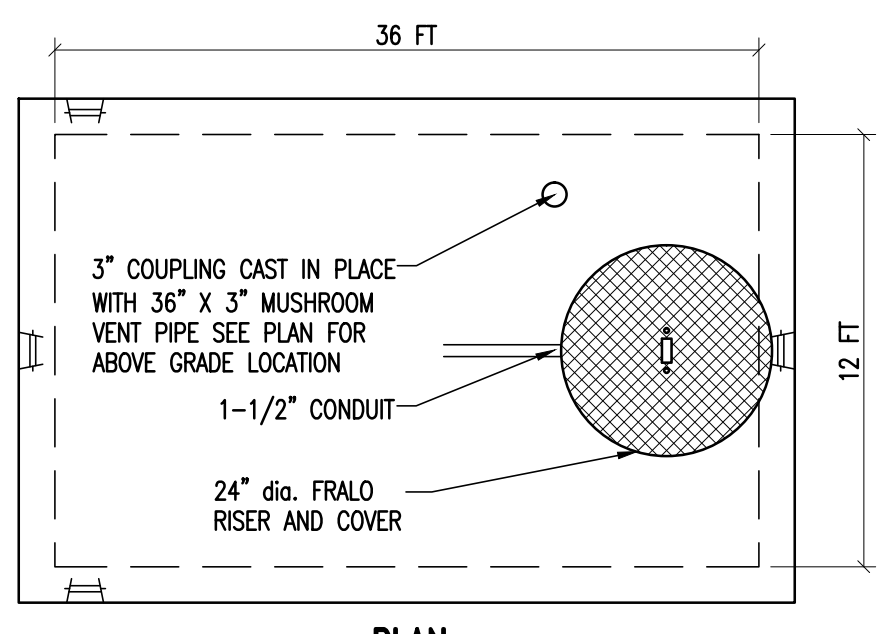
PAVEMENT PATCHING NOTES:
1. IN ALL PAVEMENT AREAS TO BE PATCHED, SAW CUT AND REMOVE EXISTING PAVEMENT.
2. EXCAVATE BASE MATERIAL AND SUB-BASE MATERIAL IF NECESSARY.
3. COMPACT ALL FILL MATERIAL TO 95% OPTIMUM DENSITY.

ASPHALT PAVEMENT PATCH DETAIL
SCALE: NONE

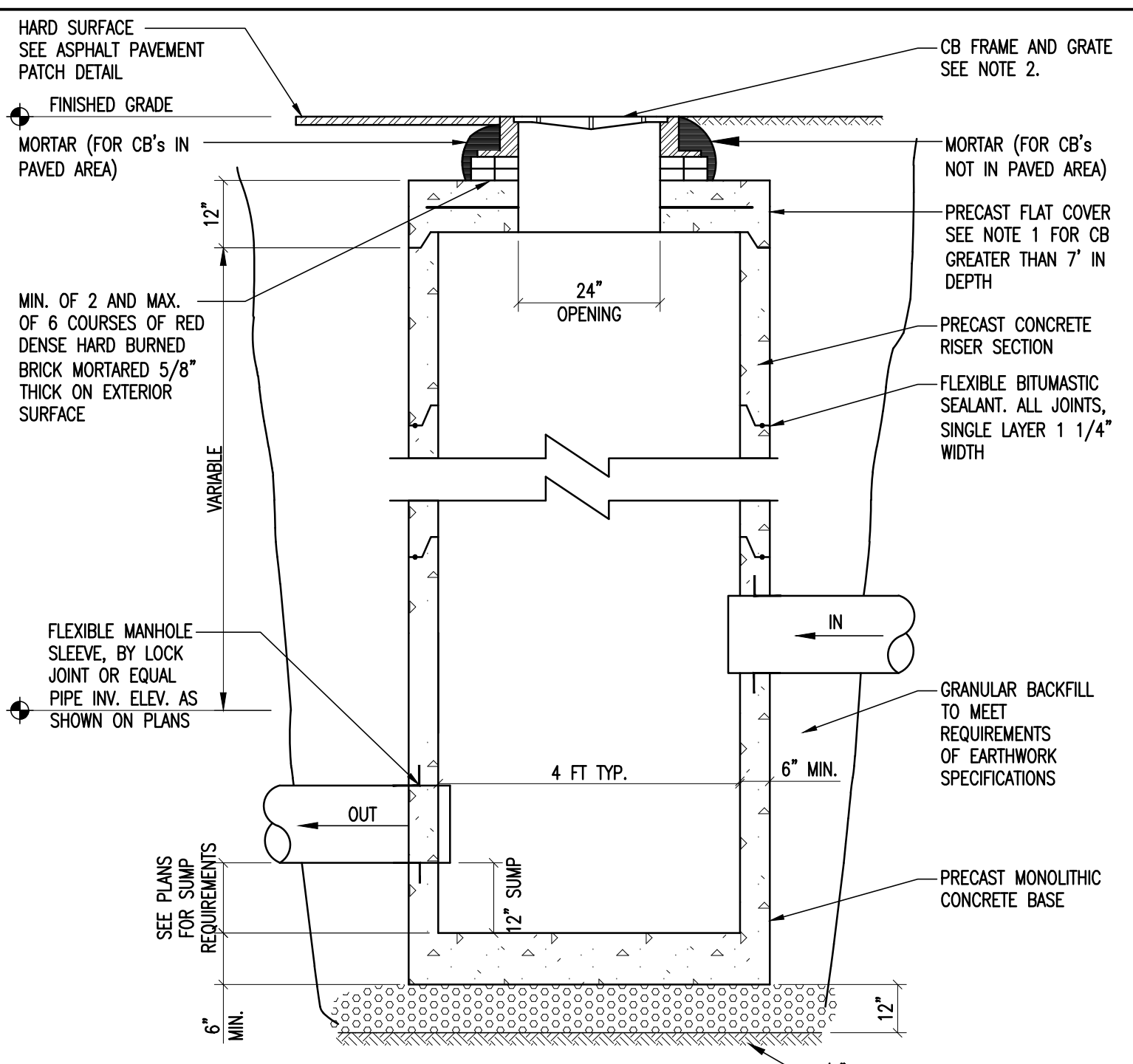


SILT FENCE NOTES:
1. SILT FENCE SHALL BE PRE-FABRICATED EROSION CONTROL FENCE BY MIRAFI OR EQUAL, OR CONSTRUCTED IN PLACE AS SPECIFIED HEREIN.
2. CONSTRUCTED IN PLACE SILT FENCE:
A. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
B. FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE TIES SPACED EVERY 24" AT TOP OF MID SECTION. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6", FOLDED AND STAPLED.
3. INSPECTION SHALL BE FREQUENT (MINIMUM ONCE A WEEK AND AFTER EVERY RAINFALL). MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN SILT FENCE.

SILT FENCE
SCALE: NONE

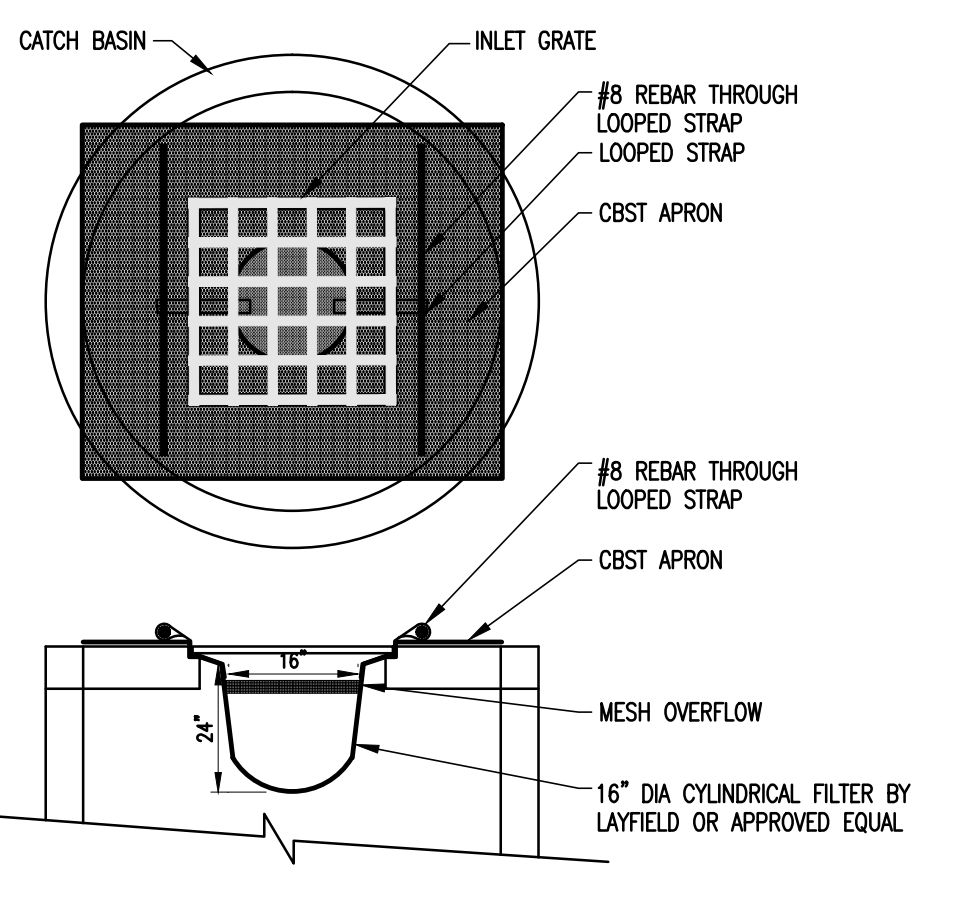


PLAN

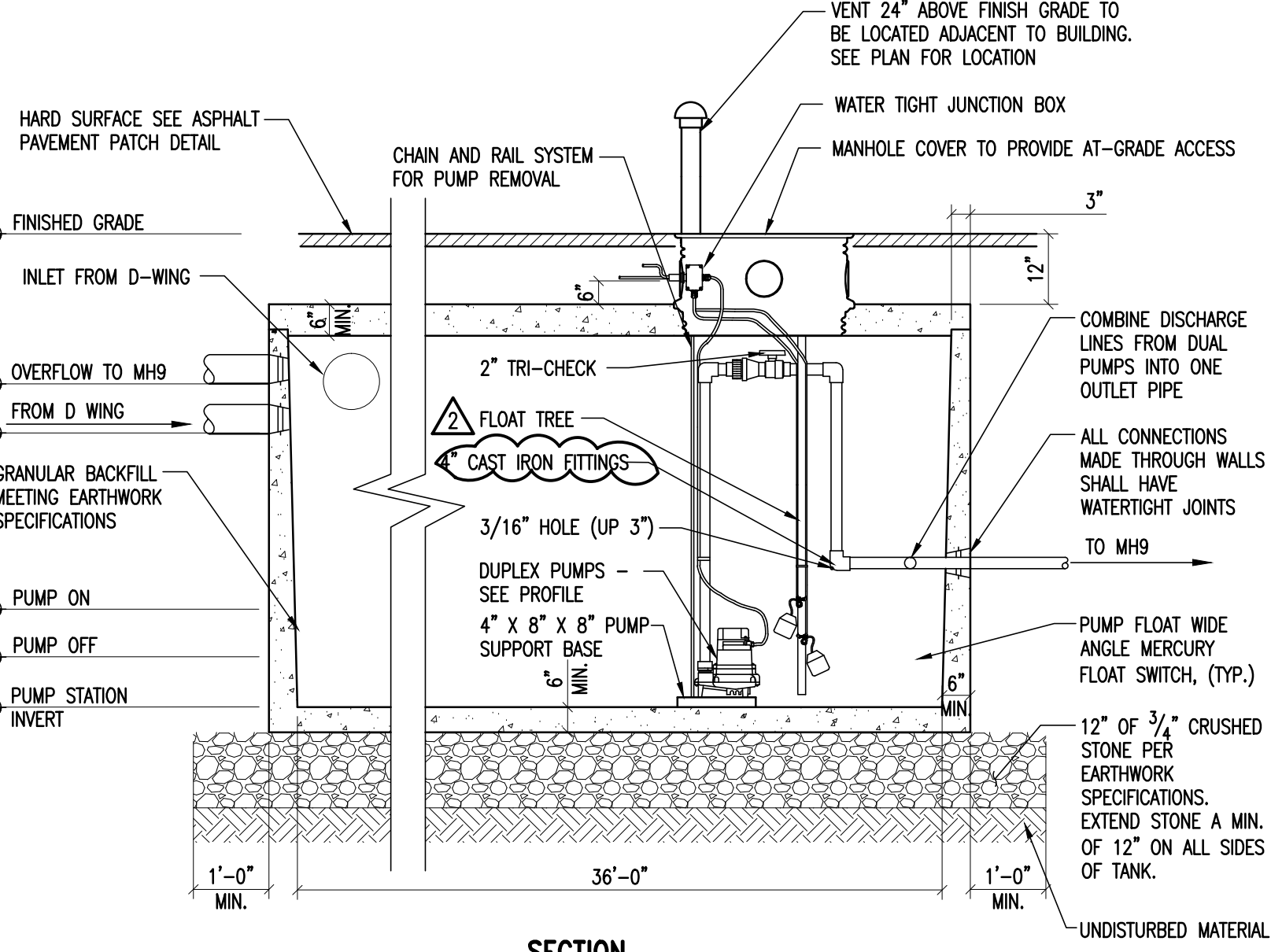


CATCH BASIN NOTES:
1. IF DEPTH OF TANK IS 7 FEET OR LESS FROM RIM TO CENTERLINE INVERT THEN A FLAT TOP WILL BE INSTALLED. IF DEPTH OF CATCH BASIN FROM RIM TO CENTERLINE INVERT IS MORE THAN 7 FEET THEN A CONICAL TOP WILL BE INSTALLED.
2. PROVIDE A KENAMATH R-2500 24" DIA. GRATE OR APPROVED EQUIVALENT.
3. CATCH BASIN AND GRATE SHALL BE DESIGNED FOR H2O LOADING.
4. CATCH BASIN SHALL BE PRECAST CONCRETE AS MANUFACTURED BY FORT MILLER OR APPROVED EQUIVALENT.

CATCH BASIN DETAIL
SCALE: NONE

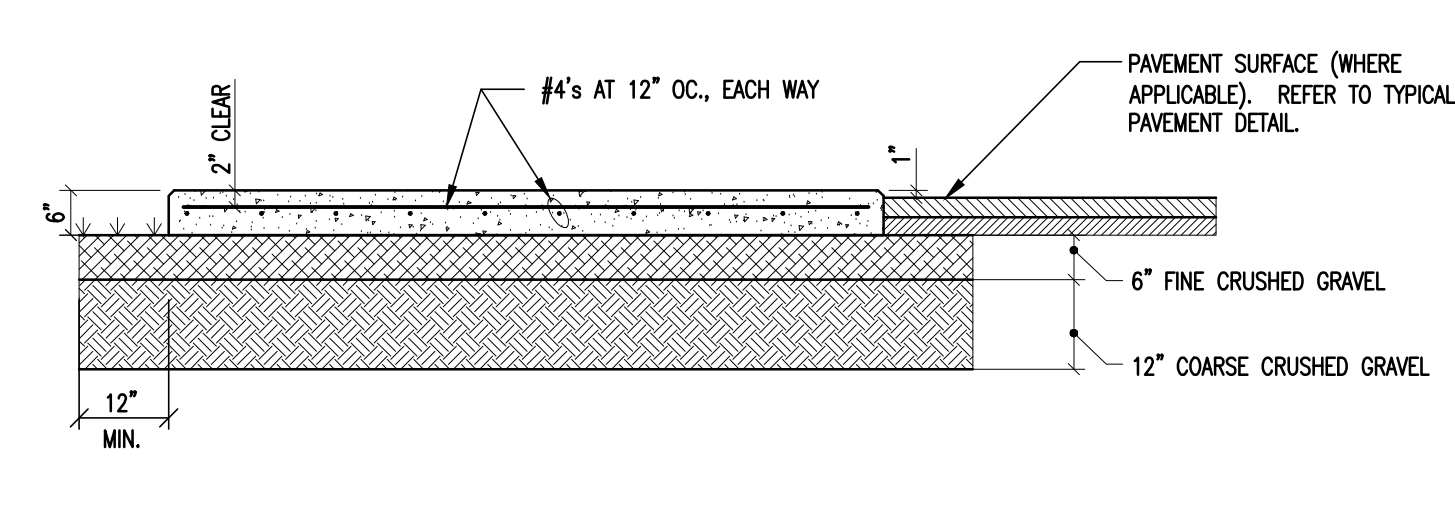


TEMPORARY INLET CATCH BASIN PROTECTION DETAIL
SCALE: NONE



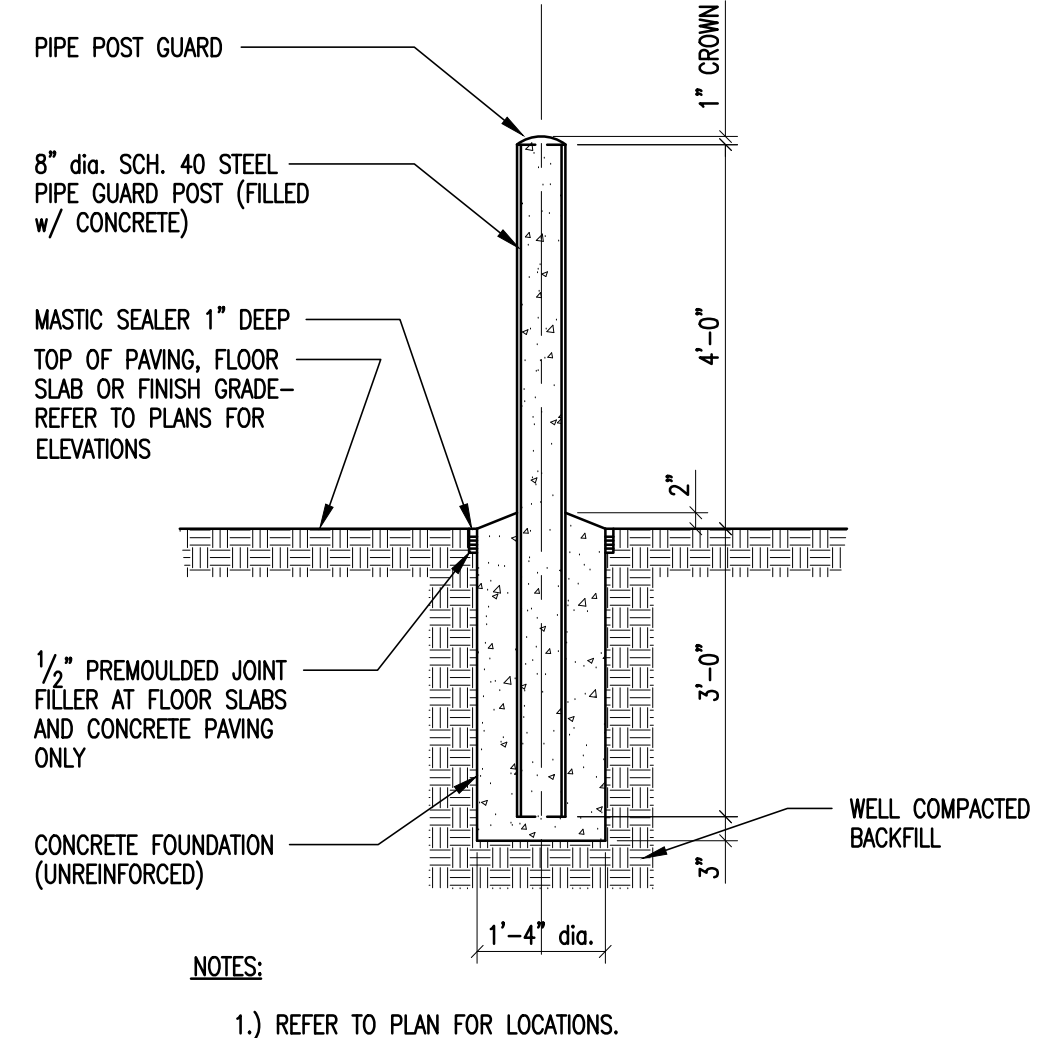
STORAGE TANK NOTES:
1. STORAGE TANK TO BE WATER TIGHT AND MEET TESTING REQUIREMENTS AS SPECIFIED IN SANITARY SEWER STRUCTURE SPECIFICATIONS.
PUMP STATION NOTES:
1. NEMA 4X CONTROL PANEL TO BE LOCATED IN THE EXISTING BUILDING AND SHALL CONTAIN:
A. RUN LIGHTS
B. HAND-ON-OFF SWITCH
C. ALARM SILENCE BUTTON
D. AUDIO AND VISUAL ALARM TO BE MOUNTED ON THE CONTROL PANEL BOX.
E. PUMP TIMER AND COUNTER
2. SPARE PARTS TO BE SUPPLIED TO INCLUDE:
A. EXTRA FLOAT SWITCH
B. ONE ORIGINAL SET OF MANUALS FOR BOTH THE PUMPS AND CONTROL PANEL
3. ALL ELECTRICAL COMPONENTS TO BE UNDERWRITERS LABORATORY APPROVED, INSTALLED BY A LICENSED ELECTRICIAN IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE
4. ALL PIPE AND FITTINGS IN PUMP STATION SHALL BE 4" CAST IRON OR DP.
5. TANKS SHALL BE INSTALLED LEVEL ON 2" COMPACTED GRANULAR BACKFILL.
6. PUMP STATION SHALL BE 15,000 GALLON PRECAST "HORIZONTALLY EXTENDED SEPTIC TANK" AS MANUFACTURED BY THE FORT MILLER CO. OR APPROVED EQUIVALENT. INSTALL (2) GRINDER PUMPS AS SPECIFIED ON PLAN SHEET.
7. THE PUMP SHALL BE INSTALLED WITH 1" CHAIN AND RAIL SYSTEM TO THE PUMPS MAY BE WITHDRAWN FROM THE PUMP STATION TO THE GROUND SURFACE.
8. HIGH WATER LEVEL ALARM SHALL BE ON A SEPARATE CIRCUIT.
9. REFER TO PLAN SHEET FOR STORAGE TANK DIMENSIONS AND ELEVATIONS.
10. THE USE OF THREE 10,000 GALLON TANKS WITH EQUALIZATION PIPE IS AN ACCEPTABLE ALTERNATIVE TO TWO 15,000 GALLON TANKS.

STORAGE TANK/PUMP STATION DETAIL
SCALE: NONE



NOTES:
1. CONCRETE TO BE 4000psi WITH 5-7% AIR ENTRAINMENT.
2. BROWN FINISH WITH SMOOTH TROWELED EDGES. TREAT WITH SILANE-SILOXANE OR EQUIVALENT.
3. REFER TO LAYOUT PLAN FOR SIZE AND LOCATION.

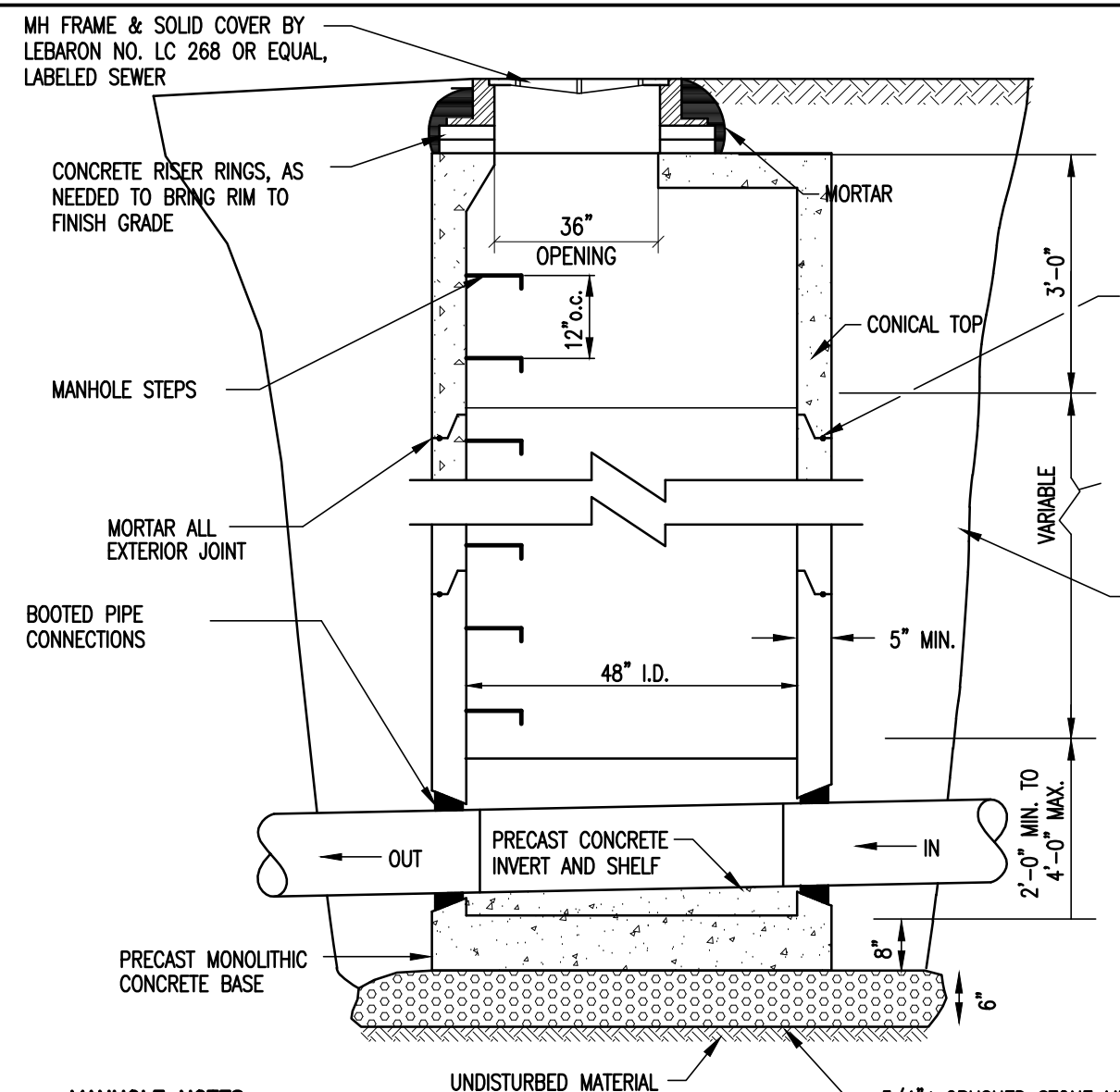
EXTERIOR CONCRETE PAD DETAIL
SCALE: NONE



BOLLARD DETAIL
SCALE: NONE

EARTHWORK NOTES

1. PRIOR TO THE START OF WORK, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE CONTRACTOR, OWNER, AND PROJECT ENGINEER TO REVIEW PROCEDURES AND IDENTIFY RESPONSIBILITIES, UNLESS STATED OTHERWISE, ALL MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE NYS DOT SPECIFICATIONS.
2. CLEARING AND GRUBBING- SITE TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, INCLUDING DRIVEWAYS, STONE WALLS, AND GRASS AREAS. THE DRIVEWAY SUB-GRADE MATERIAL SHALL EXTEND ONE FOOT BEYOND THE EDGE OF PAVING.
3. COMPACTION OF ALL MATERIALS SHALL BE PERFORMED USING VIBRATORY ROLLERS AND WATER IN LIFTS OF NO GREATER THAN TWELVE INCHES. COMPACTION SHALL BE PERFORMED UNTIL THE REQUIRED DENSITY IS ACHIEVED. DENSITY SHALL BE DETERMINED BY ASTM D2922 AND SHALL NOT BE LESS THAN THE REQUIRED AMOUNT AS DETERMINED IN ACCORDANCE WITH ASTM D1557.
4. COMPACTION TESTING SHALL BE PERFORMED FOR EVERY LAYER OF MATERIAL PLACED AND FOR EVERY 1000 SQUARE FEET OF AREA.
5. PAVEMENT SHALL MEET THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AS PUBLISHED BY NYS DOT.
6. PAVEMENT SHALL NOT BE INSTALLED WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT, NOR WHEN THE ROAD BASE TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT. PAVEMENT SHALL NOT FALL BELOW 185 DEGREES FAHRENHEIT PRIOR TO THE COMPLETION OF ROLLING. PAVEMENT SHALL NOT BE INSTALLED WHEN THE SUBGRADE IS FROZEN OR THE GRADES ARE INCORRECT.
7. ALL REMAINING DISTURBED AREAS SHALL BE FERTILIZED AND SEEDED IN ACCORDANCE WITH APPLICABLE STATE SPECIFICATIONS FOR EROSION CONTROL.
8. THE SEEDING OF 10% OR GREATER SLOPES SHALL REQUIRE THE USE OF EROSION CONTROL MATING.
9. ALL EARTHWORK MATERIALS SHALL BE OBTAINED FROM APPROVED SOURCES. THEY SHALL CONSIST OF SATISFACTORILY GRADED, FREE DRAINING MATERIAL, FREED FROM LOAM, SILT, CLAY AND ORGANIC MATERIAL. EARTHWORK MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING TABLES:
A. SAND BLANKET/BEDDING: SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
100 100
1-1/2 INCHES 90 - 100
1/2 INCH 70 - 100
NO. 4 60 - 100
NO. 10 0 - 20
NO. 200 0 - 8
B. 3/4" CRUSHED STONE: SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
1 INCH 90 - 100
3/4 INCH 80 - 100
3/8 INCH 20 - 55
NO. 4 0 - 10
NO. 8 0 - 5
C. FINE CRUSHED GRAVEL: SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
2 INCHES 100
1 1/2 INCHES 90 - 100
NO. 4 30 - 60
NO. 10 0 - 12
NO. 200 0 - 6
D. GRANULAR BACKFILL: SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
3 INCHES 100
NO. 4 45 - 75
NO. 10 0 - 12
NO. 200 0 - 6
E. TOPSOIL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE SPECIFICALLY STATED IN THE CONTRACT DOCUMENTS:
1. THE PH OF THE MATERIAL SHALL BE BETWEEN 5.5 AND 7.8
2. THE ORGANIC CONTENT SHALL BE NOT LESS THAN 2% NOR MORE THAN 20%
3. GRADATION: SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
2 INCHES 85 - 100
1 INCH 85 - 100
1/4 INCH 65 - 100
NO. 200 20 - 80
THE CONTRACTOR MAY AMEND NATURAL TOPSOIL WITH APPROVED MATERIALS AND BY APPROVED METHODS TO MEET THE ABOVE SPECIFICATIONS.



MANHOLE NOTES:
1. PROVIDE SMOOTH SWEEPING TRANSITIONS BETWEEN INVERTS OF INTERSECTING PIPE.
2. MANHOLE AND COVER SHALL BE DESIGNED FOR H2O LOADING.

CONTROL STRUCTURE SANITARY MANHOLE DETAIL
SCALE: NONE

TANK VOLUME 10/16/13 10/22/13		CONSULTANTS: HymaH Hayes 1511 Route 22 - Suite C-24 Brewster, New York 10509 p: 845.278.7710 f: 845.278.7750 adelaidelc.com		ENGINEERING VENTURES PC 208 Hym Avenue, Suite 2A Burlington, VT 05401 tel: 802.863.6225 fax: 802.863.6376 85 Main Street, Suite 200A, Lebanon, NH 03756 tel: 603.442.9331 fax: 603.442.9331		ARCHITECT/ENGINEERS: Sigma Psi Consulting Mechanical, Electrical, Plumbing Engineers, PLLC 4 Collamer Road, Malta, NY 12020 PH (518) 581-9428 FX (518) 580-9325		Drawing Title STORMWATER DETAILS Approved Project Director		Project Info Project Name: RENOVATE FOR STERILE PROCESSING SERVICE (SPS) Stratton VA Medical Center Location: Albany, New York Date: 08-21-2013 Checked: FB Drawn: ST		Project Number VA 528A8-08-847 Building Number 1 Drawing Number C3.0 Dwg. 2 of 88		Office of Construction and Facilities Management Department of Veterans Affairs	
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